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College of Engineering & Computer Science

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Wright State University College of Engineering and Computer Science Bits and PCs newsletter, January 1989

Wright State University College of Engineering and Computer Science

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**Wright State
University**

Dayton, Ohio 45435

Bits & PCs

College of Engineering and Computer Science

January 1989

This newsletter...

is a monthly publication to inform students of the activities, news, opportunities and changes occurring in the College of Engineering and Computer Science. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities. The newsletter is published by the College of Engineering and Computer Science and distributed to all engineering and computer science majors through their student mailboxes. Submit items to be included in the February issue to the College of Engineering and Computer Science office, 130 Engineering and Mathematical Sciences building by February 1. The next issue will be published on February 20.

Dates to Remember

- JAN 23—Last Day to Drop a Class
Without a Grade of "W"
- INCOME TAX SEMINAR**
- FEB 4—**SECOND ANNUAL
MEXICAN FIESTA**
- FEB 6—Spring Registration Begins
COLLEGE ADVISING DAY
- Feb 14—Valentine's Day
- Feb 19-25—**NATIONAL
ENGINEERS WEEK**
- Feb 20—**COLLEGE OPEN HOUSE**
(EMS lobby)
- President's Day
- May 12—**COLLEGE BANQUET**

National Engineers Week

The 1989 celebration of National Engineers Week (February 20-25) will be bigger and better than ever before. We plan to have an open house and JETS/TEAMS competition for high school students. We especially *Need Junior and Senior Engineering Students to Volunteer* to help with these activities. If you are interested and would like more information, see Teri Shepherd in the college office (130 EMS) or call her at 873-2403.

Second Annual Mexican Fiesta

The Engineering and Computer Science Alumni Society extends an invitation to all seniors, alumni, graduate students, faculty and staff to attend the Second Annual Mexican Fiesta and FREE basketball game on the evening of Saturday, February 4, 1989. This will be a "create your own" taco buffet with a preceeding "happy hour" of spirits and socializing in the University Center. The happy hour will start at 5:30 pm with the buffet beginning at 6:00 pm. The cost of the taco buffet is \$4 per person. Beer will be available for purchase. The Wright State Raiders will be playing the Northern Illinois Huskies at 7:30 pm. For more information, contact Roxanne Edwards of the Office of Alumni Affairs, 873-2620. A limited number of tickets are available. Reservations must be in by January 25.

Income Tax Seminar

The College of Engineering and Computer Science is sponsoring an Income Tax Seminar on Monday, January 23, 1989, from 5:30-8:00 PM. It will be held in room 155 B&C, University Center and the guest speaker will be Dr. Russell H. Hereth, Assistant Professor of Accountancy, College of Business and Administration, Wright State University. Some of the topics covered will be: Income Tax Basics; Deductions, Credits, and Figuring Your Tax; Tax Savings Plan; Tips on Reducing Your Tax and many more. All seniors, graduate students, alumni, faculty and staff are invited to attend. See Teri in room 130 EMS no later than January 19 to make reservations. As a bonus, standard state and federal tax forms will be available, as well as free income tax publications to the first twenty people, door prize drawing and tax tips pamphlets. Pizza and pop will be served during the question and answer period.



Engineer-In-Training (FE) Test

WSU Engineering seniors who will graduate prior to September 30th, 1989, in any of the following:

Biomedical Engineering
Computer Engineering
Mechanical Engineering
Electrical Engineering
Engineering Physics
Materials Science and Engineering

are eligible—and *Strongly Encouraged*—to take the "Fundamentals of Engineering" Exam (sometimes called the "Engineer-In-Training" (EIT) Exam) this spring.

Application Materials:

Available in the Dean's office (130 EMS) or from the State Board of Registration.

Application Deadline:

February 15, 1989 (for graduating seniors)
January 15, 1989 (for graduates)

Fee:

\$35 with application (Non-refundable)

Test Date:

Saturday, April 15, 1989

Test Site:

WSU seniors can expect to take the test at Wright State

Local Information:

Clark E. Beck, P.E.
Board Representative
130 EMS, 873-2403

Change in CS and CEG Major Requirements

All CS and CEG majors are *required* to complete CS 415, Social Implications of Computing. This includes students under the "old" program. All senior CS and CEG majors who have not completed CS 415 should review their program with one of our advisors to minimize the inconvenience brought about by this change. Call the CSE Department at 873-2491 to schedule an appointment.

(SAME) Seeks Students

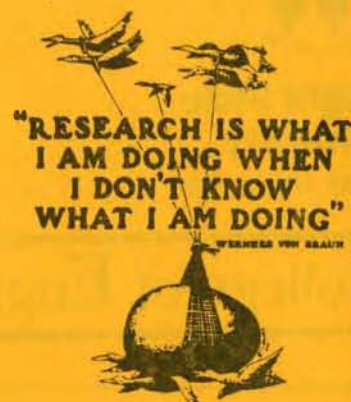
Captain Jeff Hooper, USAF, who is Chair of the Young Engineers Group at WPAFB has contacted the college about starting a student post of the Society of American Military Engineers (SAME) at WSU.

The primary objective of (SAME) is to increase the engineer potential of the United States for national defense. The society advances knowledge of the science of military engineering; promotes efficiency in the military engineer service of the United States; maintains its best standards and traditions; preserves the memory of services rendered by the engineering profession throughout the wars in which the United States has been engaged; encourages and develops relations of helpful interest between the engineering profession in civil life and that in the military service; and, holds meetings for the presentation and discussion of appropriate papers and for social and professional purposes.

If you are interested in finding out more about (SAME) contact Teri Shepherd in the college office, 873-2403.

Masters of Innovation Competition

Win a \$5,000 ZDS Computer System in the Masters of Innovation competition. A search is on for tomorrow's innovators. If you've developed or used software and/or hardware in conjunction with Zenith Data Systems products to creatively address an issue in your field of study, we want to hear from you. You could win a \$5,000 ZDS computer system for yourself, \$5,000 in computer equipment for your college campus, and national recognition from your academic peers. Call 1-800-553-0301 for more information.



Computer Science Students Face Minor Restrictions

Effective winter quarter 1989, 300 and 400 level business classes will be restricted to Business majors and minors. Therefore, if you are a CS student and intend to complete Business as a second concentration, it will be necessary to register for the Business Minor prior to enrolling in 300 level Business courses. You may do this by having an application for a Dual Major, Double Degree or Minor signed, as appropriate, by the Department of Computer Science and then submitted to the College of Business and Administration (110 Rike Hall). These applications are available in the Office of the Registrar.

Applications for the minor are approved by the College of Business and Administration if the student has achieved junior standing (90 hours) and has completed all of the following lower level courses: CS 205, EC 201/202/203, ACC 201/202/203, MS 201/202, and MTH 228. For Computer Science majors, CS 205 is waived and STT 360 and 361 substitute for MS 201 and 202. MTH 132 and 133 are substitutes for MTH 228.

College of Business and Administration advisors are available in 110 Rike to answer questions concerning the minor.

Call for Student Papers

The Engineers Club of Dayton and The Engineers Club of Dayton Foundation are pleased to announce the 1989 student paper program. This program is open to undergraduate and graduate level students at all the universities/colleges in the greater Dayton area. The authors of the best undergraduate paper and the best graduate paper will each receive a \$200 cash award and a free one-year membership in the Engineers Club of Dayton. The authors of these selected papers will be afforded the opportunity to present their papers to a group of Engineers Club members. The winning papers in each category, and some of the runner-up papers may be published in the monthly publication *The Engineer*. The winning papers authors' faculty advisors will be recognized by also receiving a free one-year membership in the Engineers Club of Dayton. Papers should be submitted for review by April 15, 1989.

Rules

1. Authors should provide a brief resume which includes student status (undergrad, grad, coop, part-time, etc.), major, faculty advisor, permanent address and phone where student can be reached, and a statement releasing their paper for publication and presentation.
2. Paper should be no more than 8 double-spaced typed pages. (Longer papers are automatically disqualified.)
3. Paper should be written for a general engineering audience. It should present the topic in an interesting and informative manner.
4. Oral presentation may include additional information not contained in the written paper.
5. Topic of the paper may be the result of the student's Ph.D. dissertation, M.S. thesis, senior design project, independent study project, etc. The paper could be a review or tutorial paper and need not involve original work.
6. Paper should be prepared in a style suitable for a technical journal such as IEEE or ASME.
7. Papers will be judged on: a)written

in an interesting manner; b)written in an informative manner; c)understandable to a general engineering audience; d)style suitable for technical journal publication.

8. To be eligible as a student, you must be currently a student or have graduated after April 15, 1987.

Send Papers To:

Philippe O. Bouchard,
Vice President.
Engineers Club of Dayton
110 East Monument Avenue
Dayton, Ohio 45402

NCR PC's

NCR has agreed to allow the faculty, staff and students from WSU to purchase NCR PC's at up to a 40% discount. Contact Vern Smith at 873-4031 for more information.

Research Funds for Honors Courses

Funds are available to help students with research expenses connected with their Honors Projects. The maximum grant is \$400. For an application form and more information, contact Teri Shepherd in the college office, 130 EMS, 873-2403. *Deadline:* February 10, 1989.

Final Examinations—Winter Quarter

Final examinations for Winter Quarter classes will be held Tuesday, March 14, through Saturday, March 18. Please note that day and evening classes end Monday, March 13. Classes do not end at 4:00 p.m. as indicated in the class schedule. Final examinations for Monday evening classes should not be held on Monday, March 13, but rather on Friday, March 17, at the times indicated on the exam schedule.

New Department Names

Effective January 1, 1989 the names of three departments in this college were changed to more clearly describe the missions being accomplished by the departments and reflect changes approved by the Accreditation Board for Engineering and Technology (ABET). The changes are as follows:

From: Department of Biomedical Engineering
To: Department of Biomedical and Human Factors Engineering

From: Department of Electrical Systems Engineering
To: Department of Electrical Engineering

From: Department of Mechanical Systems Engineering
To: Department of Mechanical and Materials Engineering

The name of the Department of Computer Science and Engineering has not been changed.

Tutoring Service

Tutoring services are available through the Tutor Office in 131 Student Services Wing, 873-2841. They will pay for one hour of free individual tutoring per week/per course, and only for freshman level courses. For tutoring beyond the one hour per week, the student will need to either pay the tutor directly or purchase a book of coupons. Books of ten (10) coupons sell for \$40 through the Bursar's Office. They are numbered and can only be used by the purchaser. Unused coupons can be refunded at the end of the quarter.

Tutors are paid \$3.95 an hour and can set their own hours. If you are interested in becoming a tutor and have a GPA of 2.8 or better, contact the Tutor Office.

Mandatory Advising and Dismissal Policy

Students who for one reason or another find themselves in academic difficulties are placed on mandatory advising to assure they clearly understand that they are not meeting the minimal standards of scholarship required to obtain a baccalaureate degree. The records of such students are continuously monitored so that the departments can decide whether a student's academic accomplishments merit the privilege of continued enrollment at the university.

A student on mandatory advising for a third quarter may be dismissed from the university for unsatisfactory academic performance. The following factors will be considered in the dismissal decision:

- Program majors will be expected to maintain a 2.00 GPA for each quarter. Pre-program majors will be expected to maintain a 2.25 GPA for each quarter.
- Students will be expected to maintain progress toward the degree. This assumes students will elect courses which are degree requirements; will follow a logical sequence of courses within the program; and, will not have an excessive number of withdrawals (not more than one per quarter).

If the above requirements are not met, students should expect to be dismissed.

Trivia Question??????

In September, 1988, the first Johnny Bench Golf Tourney was held at Shaker Run Golf Course. The three-day event brought twenty of the regions top college golf teams together. Which school's team won the event which was a benefit for the University of Cincinnati Golf Program?

Third National Conference on Undergraduate Research

Trinity University cordially invites you to take part in the Third National Conference on Undergraduate Research in San Antonio, Texas, April 27-29, 1989. The conference provides a forum in which students can present their research to a national audience and engage in scholarly discussions in their own and unrelated disciplines, and in which faculty and administrators can meet, exchange ideas, and establish networks. February 20th is the deadline for receipt of abstracts for oral/poster presentations. For more information contact Teri Shepherd, 130 EMS.

On-Campus Interviewing Program

If you are graduating in March, June, or August of 1989 and did not participate in the On-Campus Interviewing program during the fall quarter, get involved in the program during the winter quarter. Stop by 126 SSW to pick up a registration packet and complete the necessary registration forms. Check the bulletin boards outside 126 SSW for weekly updates and information regarding the On-Campus Interviewing schedule.

Job Referral Program

The Job Referral program is another important service available to you when you are registered with Career Planning & Placement. Throughout the year, local & regional employers contact our office seeking potential employees. On receiving such requests, Placement refers qualified candidates directly to such employers and assists in arranging candidate interviews. Interviews are generally conducted at the employer's office or plant. Many seniors and alumni achieve their career goals as a result of the referral program.

Transfer of Students between Departments

Undergraduate students who want to transfer from one major to another within the college must meet the following criteria:

- Students must have a GPA of 2.00 or greater for all engineering and computer science courses taken at Wright State University.
- Students must meet core course requirements specified for admission to the college. (Note: This statement applies to those students who are in a major under pre-fall 87 admission rules to the college and have not progressed.)
- Students who meet the above may complete a transfer of major application. The student's folder will be sent by the department of the old major to the college office for update of the Student Information System (SIS). The folder will be forwarded to the department of the new major with update information indicated.

Writing Your Resume

In today's competitive job market, it is essential for you to have a well written resume. The resume is a brief summary which highlights your education, accomplishments, skills, background, and other qualifications that you have to offer a potential employer. A resume often forms the first impression an employer will have of you and represents you in your absence. Think of it as a brochure designed to convince a prospective employer to offer you an interview.

There is no "best" or "right" format for writing your resume, but it should include certain information which is pertinent to the desired position you are seeking:

1. Personal Information: Name, address and phone number(s).
2. Objective: A brief statement indicating what you would like to be doing in a job or field, and is preferably geared toward an employer's needs.
3. Education: College/university attended, degree, major, date of graduation, GPA, description of area of study, senior project, thesis, or dissertation.
4. Experience: Include full, part-time or summer employment, volunteer positions, cooperative education experiences or internships. Also provide dates of employment, name of company or organization, your job title, and a brief description of your job duties and responsibilities.
5. Special Categories: Honors, awards, interests, achievements, computer skills, and any activities which emphasize leadership skills.
6. Reference: Include a statement such as "References furnished upon request." Prepare a separate page which lists three or four people who can speak to your academic or work related qualifications. Be sure to include your reference's title, business address, and phone number. Check with your prospective references before providing their names to employers.

A handout on other resume writing tips and formats can be obtained in 126 SSW. Resume Writing workshops will also be presented by the Career Planning & Placement staff during the winter & spring quarters. Your resume can work for you if you put time and effort into its preparation and are willing to take the initiative to use it positively to introduce you—a special and qualified applicant.

Engineers in Demand

Engineering ranks as the second largest profession, behind teaching, with 1.3 million jobs embracing more than two dozen specialties. Chief among the specialists are electrical and electronic engineers who hold approximately 390,000 positions in a field where employment opportunities, according to the U.S. Dept. of Labor, are "expected to be excellent through the mid 1990s." No other occupation rates a more glowing forecast. (Catholic Telegraph "Careers," Nov 11, '88)

Technical Internships Available

AT&T Bell Laboratories
American Scandinavian Foundation,
The Battelle-Columbus Laboratories
Brookhaven National Laboratory
City of New York,
The Douglas Aircraft Co.
German Summer Work Program,
Princeton University
Lawrence Berkeley Laboratory
Lawrence Livermore National
Laboratory
London Engineering Internship
Program
Northwest College and University
Association for Science
Raychem Corporation
University of California, Berkeley
Weizmann Institute of Science and
more

Visit the Career Resource Center in 126 SSW for more information.

Spring Quarter Registration

Spring Quarter registration begins on February 6, 1989. Each of our departments will be holding an Advising Day during that same day. Check with your department office or adviser for more information. It would be a good idea to talk with your adviser prior to Advising Day to discuss your academic plans and make sure you are registering for the correct courses.

REGISTER EARLY!

College Sweatshirts

The Bookstore now has a limited supply of Engineering and Computer Science sweatshirts. These grey with burgandy print sweatshirts come in two styles: hooded and crewneck. Get your sweatshirt TODAY!

Dr. James E. Brandeberry, Dean
College of Engineering and Computer Science
Teri Shepherd, Editor
Sharon Coates, Assistant Editor

Submit questions, articles and ideas to Editor, 130 EMS. The College of Engineering and Computer Science reserves the right to edit all material and publication.



**Wright State
University**

Cooperative Education

The following experience report was written by Don Wolf, a computer science major, during his first co-op assignment at NCR, Systems Engineering - Retail in the Transaction Network Engineering Division:

Some examples of my basic duties are: Familiarizing myself with certain manuals, making backups of PC hard disks, making copies of manuals, installing new PC's and assembling and checking for errors in programs. In addition, I was also expected to complete other specific tasks.

One task was to help run tests for the 2126/2127 conversion editor on the VSE/DOS operating system for the IBM mainframe and compile test manuals for the 2126/2127 conversion editor.

Another was to arrange and catalog magnetic tapes according to the respective operating system, MVS or VSE, and copy a list of these tape to the PC hard disks of TNE personnel.

Using Harvard Graphics, I made a

PC animated presentation pertaining to the VTAM File Transfer System (VFTS) which showed the interaction of services provided by VFTS with VTAM files. Specifically speaking: UTILITIES, SCHEDULING and COMMUNICATION services and an overview of the three services working together.

One of my learning objectives was to run tests on conversion editors which was accomplished by running tests on the 2126/2127 conversion editor. Another objective was to assist my supervisors by learning and performing some of their easier tasks. I was able to do so by learning JCL for compiling COBOL and assembler programs. I am currently trying to increase my knowledge of VSE JCL in attempting to write a PROC for use by one of my supervisors. In observing the daily routines of my co-workers, I now understand that there is more to their jobs than programming; they also present their products to prospective customers.

In conclusion, I have found this co-op job to be a good learning experience because I have a better understanding of the computer field and have developed a better understanding of how the real business world works. I have confirmed my career choice and look forward to working in that field.

Students who are interested in finding out more about the Cooperative Education Program should contact Sheila Suel (Computer Science), or Dianna Harris (Engineering and Science) at 126 Student Services in University Placement Services. Group information sessions are available.

The logo features the word "TEAM+S" in a large, bold, sans-serif font. The letters are black and set against a background of a white grid. The grid lines are thin and intersect to form a pattern of small squares. The letters are slightly offset from the grid lines, creating a sense of depth. The "+" sign is a simple black cross. A small "TM" trademark symbol is located to the right of the "S".

TEAM+STM

TESTS OF ENGINEERING APTITUDE, MATHEMATICS AND SCIENCE

Scholarship Information

U.S. Department of Energy Fellowships

A variety of fellowships are being offered by the U.S. Department of Energy. These are open to U.S. citizens and permanent resident aliens who hold a B.S. degree in either the physical sciences, engineering, or mathematics. Eligibility is restricted to entering and first-year graduate students. This is an equal opportunity program open to all qualified persons without regard to race, sex, creed, color, age, handicap, or national origin.

Application Deadline: January 30, 1989. Contact Teri Shepherd (130 EMS) for more information.

Equal Opportunity Publications Scholarship Program

Two \$500 non-renewable scholarships will be awarded to outstanding women, minority, or handicapped students who are pursuing a career in engineering. Applicants must be enrolled in a full-time undergraduate program leading to a Bachelor's Degree in any engineering discipline at an accredited four-year college or university. The preliminary selection procedure will be based solely on the applicant's cumulative GPA, as verified by an official transcript. The top students will be selected and will receive applications on or about April 1, 1989. The final selection procedure will be based on: Cumulative GPA, participation in extracurricular activities, a personal statement, and a recommendation.

Application Deadline: February 15, 1989. Contact Teri Shepherd (130 EMS) for more information.

Society of Women Engineers Spring Scholarship Program

Thirty-three scholarships varying in amounts from \$1,000 to \$2,500 and totaling more than \$35,000 are available. Eligible applicants must be women enrolled in good standing in an engineering curriculum leading to a first degree in engineering in a school accredited by ABET. Must have an overall GPA of 3.5 or better. Must be able to accept the award toward engineering studies in September.

Application deadline: February 1, 1989. Contact Teri Shepherd (130 EMS) for more information.

AEA Japan Research Fellowships

Twenty U.S. and Japanese companies will finance your fellowship in Japan.

- Learn Japanese at a major U.S. university—summer 1989
- Spend nine months to a year working in a Japanese company research lab—start Fall 1989
- Acquire incomparable skills and an international perspective that will be valuable to your career
- Program expenses covered, except transportation to summer language training in U.S.

Eligibility: Unmarried U.S. citizens enrolled in graduate programs in electrical/computer engineering or computer science.

Application Deadline: February 3, 1989

For Information: Eve Majure, American Electronics Association, 5201 Great America Parkway, Santa Clara, CA 95054, (408)987-4286.

Graduate Student Programs at Argonne National Laboratory

Laboratory-Graduate Participantship appointments are available for qualified graduate students at U.S. universities who wish to carry out their thesis research at Argonne under the co-sponsorship of an Argonne staff member and a faculty member. Lab-Grad appointments are for a one-year term with annual renewals being contingent upon satisfactory performance by the appointee. Support consists of a stipend, tuition payment up to \$3,500 per year and certain travel expenses. For application materials and further information contact:

Argonne Division of Educational Programs
Graduate Student Program Office
9700 South Cass Avenue
Argonne, Illinois 60439

Rensselaer Scholar Fellowships

Academic year stipends of \$12,000 plus all tuition and fees. One year and three year fellowships available. Exceptional applicants beginning their first year of graduate study at Rensselaer in Fall 1989 are eligible. Additional summer support is also available.

For Application Information Contact: Teri Shepherd (130 EMS)

Richard H. Frost Aerospace Safety and Wright Brothers Safe Chapter Scholarship

This scholarship is a \$1000 scholarship given to a deserving student that is pursuing a career in aerospace safety, survival, or other related discipline. Eligibility requirements include enrollment as a junior or a senior for the next academic year at the University of Dayton or Wright State University. Must be pursuing an aerospace safety, engineering, life sciences, behavioral sciences, medicine, or other related degree program. Must have a grade point average of 3.0 or higher on the 4.0 scale. NOTE: a current transcript must be attached to the application.

Application Deadline: April 1, 1989.
Contact Teri Shepherd (130 EMS) for more information.

Doctoral Student Fellowships (NDSEG) Academic Year 1989-90

National Defense Science and Engineering Graduate Fellowship Program sponsored by U.S. Army, Navy, Air Force and DARPA.

DoD expects to award 150 new three-year Graduate Fellowships in April 1989. Fellowships will be awarded for study and research leading to the doctoral degree in Computer Science (and other areas). Applications are encouraged from women, minorities and persons with disabilities.

You must be near the beginning of your graduate study. You must have received a B.S./B.A. by Fall 1989. Citizenship is required.

GRE (General Test Only) is highly recommended.

Applications are available in the Computer Science Department.

For information contact:

Howard V. Carson
488 Fawcett Hall
873-2491

Application Deadline: March 1, 1989

1989 Regents Fellowships

The Ohio Board of Regents Graduate/Professional Fellowship Program recognizes the outstanding academic achievement of Ohio's most talented baccalaureate graduates, and encourages their pursuit of graduate professional degrees in Ohio. The Regents Fellowship awards \$3,500 each year for two years to students with an outstanding academic record. Selection is based on GPA, campus interview and short essay. Any student who has graduated or will graduate from WSU in the 1988-89 academic year, i.e., complete all requirements for the baccalaureate degree after June 1988 to June 1989, and plans to attend any eligible graduate or professional school (includes medical, dental, law, veterinary, etc.) in Ohio on a full-time basis, is eligible to apply for a fellowship. Many of the state's graduate schools (including WSU) will provide supplemental stipends and fee waivers to recipients of Regents Fellowships who attend their institution. Application forms are available in the Office of Financial Aid, the Graduate School and room 130 EMS.

Application Deadline: February 1, 1989.

Faculty Notes

CLARK E. BECK, P.E., (ASSISTANT DEAN) was selected 1988 "Citizen of the Year" by the Mu Chi Chapter of the Omega Psi Phi Fraternity, Inc. The award may be presented annually by each chapter to an individual in its geographical area who has done the most to further the four cardinal principles of the fraternity—manhood, scholarship, perseverance and uplift. The winning nominee was announced during the group's Achievement Week Program on November 20th, 1988.

PING HE (BME & HFE) has received acceptance for a paper titled "Statistical Relationship Between Ultrasound Echo Envelope and Envelope Peak" for publication in *Ultrasonic Imaging*.

MARIAN K. KAZIMIERCZUK (EE) published a paper "A Network Theorem Dual to Miller's Theorem" in the *IEEE Trans. Education*, Vol. E-31, pp. 265-269, November, 1988.

PRADEEP MISRA (EE) received a grant for \$68,361 from USAF: WPAFB-ASD for a proposal entitled "Robust Design of Multivariable Control."

MATEEN RIZKI (CSE) received a grant in the amount of \$1,923 from SCEE for a proposal entitled "Image Calculus Research."

DAVID REYNOLDS (BME & HFE) received a grant from RJF International/Ohio Edison in the amount of \$100,000 for a proposal entitled "An Artificial Bladder Control System-II."

RAGHAVAN SRINIVASAN (ME) received a grant in the amount of \$3,000 from Edison Materials Technology Center for a proposal entitled "Sheet Formability of Materials with Limited Ductility."

Dean's List

CONGRATULATIONS to the following students on their outstanding academic achievement:

FALL 88 (9% made Dean's List)

BIOMEDICAL ENGINEERING

Timothy Birt	High Honors
Carol Brunzman	Highest Honors
Susan Davis	High Honors
James Gatto	High Honors
William Herrnstein	Honors
Victoria Matanguihan	High Honors
Leonard Netti	Honors
Son H Nguyen	High Honors
Angela Obert	Highest Honors
Christopher Pruitt	Honors
Steven Shotts	High Honors
Rosemary Speers	Highest Honors
Mohammad Ali Vafaie	Highest Honors
Jinous Vafaie	High Honors
William Wood	Honors
Clarence Wu	Honors
Afshan Zahedi	Honors

COMPUTER ENGINEERING

John Buttram	High Honors
Sameh Ebeid	Honors
Lucy Garcia	High Honors
Gregory Hemmelgarn	High Honors
Wallace Higgins	Honors
Charles Mitchell	Highest Honors
Jesus Molina	High Honors
John Morelock	Highest Honors
Robyn Riley	Honors
Karl Seibert	Highest Honors
Ann Winans	Highest Honors

COMPUTER SCIENCE

Charles Bayley	High Honors
Charles Beem	Highest Honors
Catherine Bush	Honors
Eric Conrad	High Honors
Kevin Cunningham	Highest Honors
Beverly Davies	High Honors
Michael Dedek	Highest Honors
Carolyn Drain	Highest Honors
Deborah Drexler	Honors
Gordon Edwards	Honors
Todd Funderburg	High Honors
George Gates	Honors
Edward Gulbransen	Highest Honors
Douglas Hensley	High Honors
Matthew June	Honors
David McMeans	Honors
William Miles	High Honors
Charles Niswonger	Honors
Jeremy Ohde	High Honors
Larry Payton	Highest Honors
David Perez	High Honors
Robert Pressel	Highest Honors
Robert Schulze	Honors
James Stadler	Honors
Scott Torbert	High Honors
Daniel Wells	Highest Honors
John Wickerham	High Honors

HUMAN FACTORS ENGINEERING

Kristen Barthelemy	Honors
Mark Draper	Highest Honors
Raymond Hughey	Honors
Stephen Lindeman	Highest Honors
Helen Lutz	Honors
Dawn Mitchell	High Honors
Bernice Proicou	High Honors
Terry Sanders	Honors
Robin Stern	High Honors
Lisa Tangeman	High Honors
Brian Terrill	High Honors
Gina Thomas	Highest Honors

MATERIALS SCIENCE & ENGINEERING

Thomas Camden	Honors
Eileen Clevenger	Honors
Norbert Maurer	High Honors
Angela Szaruga	Honors

PRE-COMPUTER ENGINEER

Loai Al-Salti	High Honors
Robert Shreck	Highest Honors

PRE-COMPUTER SCIENCE

Mary Meerschaert	High Honors
Richard Volpone	Honors

PRE-ENGINEERING

Bradley Paul	Honors
Edward Piergies	Highest Honors
Cathy Swider	High Honors
Petre Udrea	Highest Honors
Hoa Vuong	Highest Honors

SYSTEMS ENGINEERING—ELECTRICAL

Michael Ballas	High Honors
Jeffrey Bayer	Highest Honors
Anthony Del Sorbo	High Honors
Lisa Dunn	High Honors
Gerald Falen	Honors
Brett Goodwin	Highest Honors
Paul Hargis	High Honors
Robert Hegstrom	Honors
William Hicks	High Honors
Yogendranaut Jainauth	Honors
Brian Kadrovach	Highest Honors
Ronald Kamm	Highest Honors
Gregory Kelly	High Honors
Jeff Layne	Highest Honors
Michael Love	Honors
Thomas Morton	Highest Honors
Teresa Pace	Highest Honors
Wallace Patterson	High Honors
Jack Platt	High Honors
Dev Ramachandran	High Honors
Douglas Renz	Highest Honors
Mark Richart	High Honors
David Sharpin	Highest Honors
John Saylor	Highest Honors
Kevin Thayer	Highest Honors
Julie Thomas-Upchurch	Highest Honors
Rollin Tomlin	Highest Honors
Binh T Ton Nu	Highest Honors
Diana O. Vong	Honors

SYSTEMS ENGINEERING—MECHANICAL

Anthony Ackerman	Highest Honors
Kevin Berta	High Honors
Earl Daley	Highest Honors
John Kosina	High Honors
Gerald Lucius	Highest Honors
Peter Martin	High Honors
David Pratt	Honors
Anthony Sylvain	High Honors
Kenneth Wolters	High Honors

ENGINEERS



TURNING IDEAS INTO REALITY

NATIONAL ENGINEERS WEEK-FEBRUARY 19-25 1989

American Society of Mechanical Engineers

(ASME) is looking forward to another busy quarter at Wright State University. We are planning a plant tour of General Electric on Friday, March 3rd, 1989 from 9:00 A.M. to 12:00 noon. Students wishing to participate in the tour should sign up by Friday, January 27th in the Mechanical and Materials Engineering Office, 159 EMS.

ASME is collecting broken calculators for the Calculator Toss Competition, sponsored by ASME, which will be part of National Engineers Week. If you have any broken or out-of-date calculators to donate, please drop them off in the Mechanical and Materials Engineering Office.

It has come to our attention that some ASME members have not received their membership pins. Pins can be obtained by contacting Lynne Brown (WSU mailbox P288).

HAVE A GREAT QUARTER !!!

Human Factors Club

The Human Factors Club will be taking a tour of the NCR Cambridge facility on January 27th. We will be leaving WSU at 6:30 A.M. and return at approximately 6:00 P.M.

Anyone interested in joining us on this trip, please sign up on the sheet posted outside Dr. Cacioppo's office (025 EMS) or call 873-3328. You must sign up by January 23rd.

National Society of Black Engineers

(NSBE) This quarter will be a very busy one for us. With maximum participation it will also be a tremendous success. It is still possible to become a member of our chapter. If the general meetings conflict with your schedule you can get involved by joining a committee.

This quarter we will be preparing for the national conference of the National Society of Black Engineers. The conference will be held in Cincinnati during the first week of Spring Quarter. A NSBE sponsored job fair is also currently in the works. There are also seminars and other activities scheduled for this quarter.

If you have any questions about NSBE or our activities, drop us a note in NSBE Mailbox, 130 EMS, or drop in on our meetings! Engineering, Math and Science Majors are all welcome.

Tau Beta Omega

We here at Tau Beta Omega are looking ahead at a busy quarter. We will be helping out during National Engineers Week in February, giving tours of the engineering facilities here at WSU, proctoring for TEAMS Testing, and possibly supervising and judging a bridge building contest for high school students. We will be rounding up volunteers for this endeavor soon. Club activities will consist of getting the Big Buddy Project off the ground and collecting cans for the Aluminum Cans for Burn Victims Project. These, along with the induction process for new members, should provide us with a busy quarter. Congratulations go out to Tau Beta Omega's newest members inducted last quarter:

Kristen Barthelemy	Leonard Netti
Jeffrey Bayer	Christopher Russel
David Brackman	Steven Shotts
Vance Calvez	Rosemary Speers
Thomas Deeter	Robin Stern
Anthony DeSorbo	Paul Studebaker
Gerald Falen	Lisa Tangeman
Kirk Fosnaugh	Gina Thomas
Tracy Johnston	Rollin Tomlin
Gregory Kelly	Mohammad
John Kosina	Vafaeimadani
Stephan Lindeman	Jinous Vafaie
Norbert Maurer	Stephanie Wilson
Dawn Mitchell	Ann Winans
Thomas Morton	Afshan Zahedi
Robert Muse	

These students are each in the top one-eighth of the junior class or top one-fifth of the senior class, have completed 45 credit hours at WSU and have shown outstanding character among fellow classmates and the engineering faculty.

GOOD JOB !!!

**COMPUTERS
are for The
TERMINALLY
INVOLVED**